Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- 1-80. (Cancelled)
- 81. (Currently amended) A method for vision correction, comprising:
 inserting a lens into a pocket created between a corneal epithelium of an eye and
 Bowman's membrane of the eye, wherein the lens is secured to the eye with an adhesive.
- 82. (Previously presented) The method of claim 81, further comprising forming an incision in the epithelium to create the pocket.
- 83. (Original) The method of claim 82, wherein the step of forming an incision includes forming an incision on an approximate nasal portion, a temporal portion, a superior portion, and/or inferior portion of the epithelium.
- 84. (Previously presented) The method of claim 82, wherein the step of forming an incision includes forming an incision on an approximate medial portion of the epithelium to form a first pocket and a second pocket, each pocket sized to accommodate a portion of the lens.
- 85. (Previously presented) The method of claim 81, further comprising deforming the lens prior to the inserting step.
- 86. (Previously presented) The method of claim 81, further comprising removing the lens from the eye, and inserting another vision correcting lens into the pocket.
 - 87-88. (Cancelled)
- 89. (Previously presented) The method of claim 81, wherein the lens comprises a synthetic material.
- 90. (Withdrawn) The method of claim 81, wherein the lens comprises a synthetic polymeric material.
- 91. (Original) The method of claim 81, wherein the inserting step occurs without forming an epithelial flap.

- 92. (Original) The method of claim 81, further comprising forming a plurality of incisions in the epithelium.
 - 93. (Cancelled)
- 94. (Previously presented) The method of claim 81, wherein the inserting step occurs substantially without damaging Bowman's membrane.
- 95. (Previously presented) The method of claim 81, wherein the inserting step occurs substantially without damaging a portion of a stroma of the cornea of the eye.
- 96. (Original) The method of claim 81, further comprising administering a healing agent to the eye in an amount effective to promote healing of the epithelium.
- 97. (Previously presented) The method of claim 81, wherein the inserting step comprises lifting a portion of the epithelium from the cornea, forming an incision in the epithelium, and passing the lens through the incision.
- 98. (Original) The method of claim 97, wherein the epithelium is lifted using a vacuum.
- 99. (Withdrawn) The method of claim 97, wherein the epithelium is lifted by delivering a fluid beneath the epithelium.
- 100. (Original) The method of claim 81, further comprising applying an effective amount of an epithelium preserving agent to the epithelium.
- 101. (Original) The method of claim 100, wherein the epithelium preserving agent includes a gel.
- 102. (Original) The method of claim 100 wherein the epithelium preserving agent comprises a component selected from the group consisting of water soluble polymeric materials, water swellable polymeric materials and mixtures thereof.
- 103. (Original) The method of claim 100, wherein the epithelium preserving agent includes at least one cellulosic component.
- 104. (Original) The method of claim 103, wherein the epithelium preserving agent includes hydroxymethylcellulose.
- 105. (Previously presented) The method of claim 81, further comprising creating the pocket using a sharp blade to slice through the epithelium.

- 106. (Previously presented) The method of claim 81, further comprising creating the pocket using a blunt instrument to separate the epithelium substantially without slicing the epithelium.
- 107. (Previously presented) The method of claim 81, wherein the creating step comprises using a microkeratome.
- 108. (Original) The method of claim 106, wherein the blunt instrument is a spatula or a wire.
 - 109-111. (Cancelled).
- 112. (Currently amended) The method of claim 99, wherein the fluid includes sodium chloride and/or or other tonicity agent.
- 113. (Previously presented) The method of claim 99, wherein the fluid is a hypertonic aqueous liquid.
 - 114-120. (Cancelled)
 - 121. (Currently amended) The method of claim 81, further comprising:

applying a liquid to the corneal epithelium, the liquid being effective in loosening the epithelium substantially without killing epithelial cells;

treating the epithelium to provide and/or or maintain the epithelium in a moisturized state;

raising a portion of the loosened, moisturized epithelium from a surface of a cornea of an eye located below the epithelium;

separating the raised portion of the epithelium from the surface of the cornea;

forming one or more incisions in the raised portion of the epithelium to accommodate the lens.

- 122. (Original) The method of claim 121, wherein the steps occur sequentially.
- 123. (Previously presented) The method of claim 121, further comprising, prior to the forming step, delivering a substance beneath the raised portion of the corneal epithelium to maintain a spaced apart relationship between the epithelium and Bowman's membrane.
- 124. (Currently amended) The method of claim 121, wherein the liquid that is applied includes sodium chloride and/or or other tonicity agent.
- 125. (Original) The method of claim 121 wherein the liquid that is applied is a hypertonic aqueous liquid.

- 126. (Original) The method of claim 121, further comprising scoring a portion of the epithelium to create an epithelial defect prior to applying the liquid.
- 127. (Original) The method of claim 121, wherein the treating step comprises applying a gel to the epithelium.
- 128. (Original) The method of claim 127, wherein the gel-containing composition comprises a component selected from the group consisting of water soluble polymeric materials, water swellable polymeric materials and mixtures thereof.
- 129. (Original) The method of claim 127, wherein the gel-containing composition comprises at least one cellulosic component.
- 130. (Original) The method of claim 129 wherein the gel-containing composition comprises hydroxymethylcellulose.
 - 131. (Cancelled)
- 132. (Original) The method of claim 121, wherein the step of separating the epithelium from the surface of the cornea includes using a blunt dissection apparatus.
 - 133. (Cancelled)
- 134. (Original) The method of claim 121, wherein the substance that is delivered to beneath the raised portion of the epithelium is a gel-containing composition.
- 135. (Original) The method of claim 134, wherein the gel-containing composition comprises a component selected from the group consisting of water soluble polymeric materials, water swellable polymeric materials and mixtures thereof.
- 136. (Original) The method of claim 134, wherein the gel-containing composition comprises a cellulosic component
- 137. (Original) The method of claim 134, wherein the gel-containing composition includes hydroxymethylcellulose.
 - 138. (Cancelled)
 - 139. (Cancelled)
- 140. (Original) The method of claim 121, wherein the forming step comprises forming a plurality of incisions in the raised portion of the epithelium.
 - 141-149. (Cancelled)

150. (Previously presented) The method of claim 81, further comprising administering a moisturizer to the epithelium effective in providing and/or maintaining the epithelium in a moisturized state.

151-159. (Cancelled)

160. (Previously presented) The method of claim 81, further comprising:

applying a liquid to the corneal epithelium, the liquid being effective in loosening the epithelium substantially without killing epithelial cells;

raising a portion of the loosened epithelium from a surface of a cornea of an eye located below the epithelium;

separating the raised portion of the epithelium from the surface of the cornea;

delivering a substance beneath the raised portion of the epithelium to maintain a spaced apart relationship between the epithelium and the surface of the cornea;

forming one or more elongated incisions in the raised portion of the epithelium to accommodate the lens.

- 161. (Currently amended) The method of claim 160, wherein the liquid that is applied includes sodium chloride and/or or other tonicity agent.
- 162. (Original) The method of claim 160, wherein the liquid that is applied is a hypertonic aqueous liquid.
- 163. (Original) The method of claim 160, further comprising scoring a portion of the epithelium to create an epithelial defect prior to applying the liquid.
- 164. (Original) The method of claim 160, wherein the step of raising a portion of the epithelium includes using a vacuum.
- 165. (Original) The method of claim 160, wherein the step of separating the epithelium from the surface of the cornea includes using a blunt dissection apparatus.
- 166. (Original) The method of claim 165, wherein the blunt dissection apparatus comprises a spatula or a wire.
- 167. (Original) The method of claim 160, wherein the substance that is delivered to beneath the raised portion of the epithelium is a gel-containing composition.
- 168. (Original) The method of claim 167, wherein the gel-containing composition comprises a component selected from the group consisting of water soluble polymeric materials, water swellable polymeric materials and mixtures thereof.

- 169. (Original) The method of claim 167, wherein the gel-containing composition comprises at least one cellulosic component.
- 170. (Original) The method of claim 169, wherein the gel-containing composition includes hydroxymethylcellulose.
- 171. (Original) The method of claim 160, wherein the one or more incisions are formed using a microkeratome.
 - 172. (Cancelled)
- 173. (Original) The method of claim 160, wherein the forming step comprises forming a plurality of incisions in the raised portion of the epithelium.
 - 174-176. (Cancelled)
- 177. (Original) The method of claim 160, further comprising applying a healing agent to the epithelium at the one or more incisions.
- 178. (Previously presented) The method of claim 81, further comprising applying an aqueous fluid to the eye.
- 179. (Previously presented) The method of claim 178, wherein the aqueous fluid is selected from the group consisting of water and saline.
- 180. (Previously presented) The method of claim 178, further comprising cooling the corneal epithelium.
 - 181. (Cancelled)
- 182. (Currently amended) The method of claim 181 claim 81, wherein the adhesive is a biodegradable glue.
- 183. (Previously presented) The method of claim 81, wherein the lens comprises a cellular attachment element.
- 184. (Previously presented) The method of claim 81, wherein the lens comprises an agent selected from the group consisting of growth factors, extracellular matrix proteins, fragments thereof, and combinations thereof.
- 185. (Previously presented) The method of claim 81, wherein the lens comprises collagen.
- 186. (Previously presented) The method of claim 81, wherein the lens comprises recombinant collagen.

- 187. (Withdrawn) The method of claim 81, wherein the lens comprises collagen and a synthetic polymeric material.
- 188. (Previously presented) The method of claim 81, wherein the lens is free of donor corneal tissue.
- 189. (Withdrawn) The method of claim 81, wherein the lens comprises collagen Type I.
- 190. (Previously presented) The method of claim 81, wherein the lens comprises collagen other than collagen Type I.
- 191. (Previously presented) The method of claim 81, further comprising forming a blister that includes the corneal epithelium.
- 192. (Previously presented) The method of claim 191, wherein the forming step comprises applying a fluid to the corneal epithelium.
- 193. (Previously presented) The method of claim 191, wherein the forming step comprises applying a chemical to the corneal epithelium.
 - 194. (Currently amended) A method for vision correction, comprising: cooling a corneal epithelium of an eye; and
- inserting a lens into a pocket created between the corneal epithelium and Bowman's membrane of the eye, wherein the lens is secured to the eye with an adhesive.
- 195. (Previously presented) The method of claim 194, wherein the cooling is effective in protecting corneal epithelial cells of the corneal epithelium from cellular injury resulting from creation of the pocket.
- 196. (Previously presented) The method of claim 194, wherein the pocket is created using a separator, and the separator is cooled to cool the corneal epithelium.
- 197. (Previously presented) The method of claim 194, further comprising applying an aqueous liquid to the eye.
- 198. (Previously presented) The method of claim 197, wherein the aqueous liquid is selected from the group consisting of water and saline.
 - 199. (Cancelled)
- 200. (Currently amended) The method of elaim 199 claim 194, wherein the adhesive is a biodegradable glue.

- 201. (Previously presented) The method of claim 194, further comprising forming a blister that comprises the corneal epithelium.
- 202. (Previously presented) The method of claim 194, wherein the lens comprises collagen.
- 203. (Previously presented) The method of claim 194, wherein the lens comprises recombinant collagen.
- 204. (Withdrawn) The method of claim 194, wherein the lens comprises a synthetic polymeric material.
- 205. (Withdrawn) The method of claim 194, wherein the lens comprises collagen and a synthetic polymeric material.
- 206. (Previously presented) The method of claim 194, wherein the lens is free of donor corneal tissue.
- 207. (Withdrawn) The method of claim 194, wherein the lens comprises collagen Type I.
- 208. (Previously presented) The method of claim 194, wherein the lens comprises collagen other than collagen Type I.
- 209. (Previously presented) The method of claim 194, wherein the lens comprises a cellular attachment element.
- 210. (Previously presented) The method of claim 194, wherein the lens comprises an agent selected from the group consisting of growth factors, extracellular matrix proteins, fragments thereof, and combinations thereof.
- 211. (Previously presented) The method of claim 194, further comprising creating the pocket using a microkeratome.
 - 212. (New) A method for vision correction, comprising:

inserting a lens into a pocket created between a corneal epithelium of an eye and Bowman's membrane of the eye; and

applying an effective amount of an epithelium preserving agent to the epithelium, wherein the epithelium preserving agent includes at least one cellulosic component.

- 213. (New) The method of claim 212, wherein the epithelium preserving agent includes hydroxymethylcellulose.
 - 214. (New) A method for vision correction, comprising:

applying a liquid to a corneal epithelium of an eye, the liquid being effective in loosening the epithelium substantially without killing epithelial cells;

treating the epithelium to provide and/or maintain the epithelium in a moisturized state, wherein the treating step comprises applying a gel to the epithelium;

raising a portion of the loosened, moisturized epithelium from Bowman's membrane of the eye;

separating the raised portion of the epithelium from the Bowman's membrane;

forming one or more incisions in the raised portion of the epithelium to create a pocket between the corneal epithelium and Bowman's membrane; and

inserting a lens into the pocket.

- 215. (New) The method of claim 214, wherein the gel-containing composition comprises a component selected from the group consisting of water soluble polymeric materials, water swellable polymeric materials and mixtures thereof.
- 216. (New) The method of claim 214, wherein the gel-containing composition comprises at least one cellulosic component.
- 217. (New) The method of claim 216, wherein the gel-containing composition comprises hydroxymethylcellulose.
 - 218. (New) A method for vision correction, comprising:

applying a liquid to a corneal epithelium of an eye, the liquid being effective in loosening the epithelium substantially without killing epithelial cells;

raising a portion of the loosened epithelium from Bowman's membrane of the eye;

separating the raised portion of the epithelium from Bowman's membrane;

delivering a gel-containing composition beneath the raised portion of the epithelium to maintain a spaced apart relationship between the epithelium and the surface of the cornea;

forming one or more elongated incisions in the raised portion of the epithelium to create a pocket between the corneal epithelium and Bowman's membrane; and

inserting a lens into the pocket.

- 219. (New) The method of claim 218, wherein the gel-containing composition comprises a component selected from the group consisting of water soluble polymeric materials, water swellable polymeric materials and mixtures thereof.
- 220. (New) The method of claim 218, wherein the gel-containing composition comprises at least one cellulosic component.
- 221. (New) The method of claim 220, wherein the gel-containing composition includes hydroxymethylcellulose.